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TAGA YASUNORI(54) MICRO-LIGHT RESONATING ORGANIC
ELECTROLUMINESCENT ELEMENT

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(57) Abstract:

PROBLEM TO BE SOLVED: To provide a micro-light resonating organic electroluminescent element having high light emission efficiency in which an organic light emission material with a wider light emission spectrum can be utilized, with a narrow half-value width of a light emission peak, and a superior forward directivity and monochromaticity even if spectroscopy is not performed.

SOLUTION: A micro-light resonator is constituted by a multi-film mirror 12 and a metal mirror 22, and the optical length of the micro-light resonator calculated from the film thickness and deflection rate of a crystal conductive layer 14 and a light emission layer 16 pinched between these mirrors and the quantity of light seeping to the multi-layer film mirror 12 is 1.5 times the wave length of the target light emitted from an element, and that target light is set at the rise part on the short wave length side of a light emission spectrum of a light emission material.

